

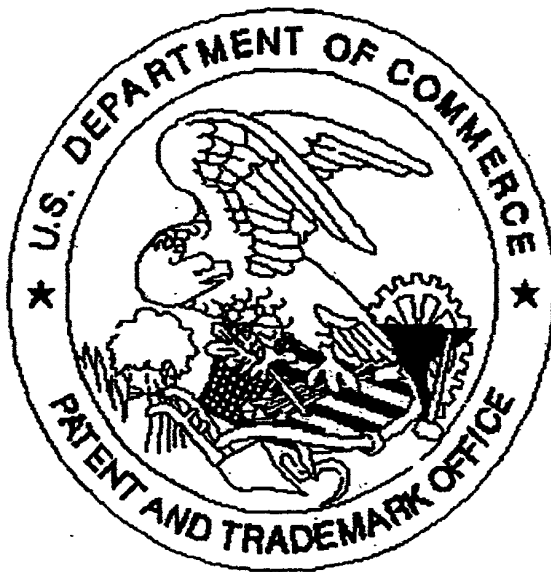
Grade	C	Si	Mn	P	S	N	Al	Cu	Cr	Mo	Ti	V	Nb	Mo
S15 (EN10 130)	0.024	0.008	0.195	0.008	0.006	0.0047	0.008	0.008	0.014	0.002	0.001	0.001	0	0.002
S15 (5min 500°C)	0.027	0.009	0.204	0.008	0.006	0.0038	0.011	0.009	0.013	0.002	0.001	0.002	0.001	0.002
ZSE220H (SEW08)	0.023	0.019	0.188	0.009	0.005	0.0038	0.016	0.021	0.022	0.003	0.019	0.001	0	0.004
ZSE220H (SEW08)	0.023	0.011	0.188	0.011	0.005	0.0048	0.017	0.011	0.021	0.002	0.021	0.001	0	0.004
ZSE220H (SEW08)	0.015	0.016	0.179	0.011	0.002	0.0022	0.016	0.021	0.023	0.002	0.017	0.001	0.001	0.002

Table 1: Chemical composition

Steel grade	Yield strength MPa	Tensile strength MPa	Elongation to fracture	BH ₂ MPa
S15 (EN10 130)	up to 180	270 to 390	at least 40	-
S15 (5min 500°C)	150	300	35	at least 38
S15 (2min 700°C)	180	380	30	at least 58
ZSE220H (SEW08)	from 220	300 to 380	at least 36	-
ZSE220H (5min 500°C)	220	340	34	at least 41
ZSE220H (2min 700°C)	250	380	28	at least 80
ZSE240 (SEW08)	340 to 440	410 to 530	at least 20	-
ZSE240 (5min 500°C)	380	470	22	at least 18
ZSE240 (2min 700°C)	390	480	20	at least 35
ZSE220BH (SEW08)	220 to 280	320 to 400	at least 20	from 40

Table 2

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